

Infrared movement sensor operating in daylight

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Abstract of DE19917109

The electronic system measures (20, 22) ambient daylight. It also measures disturbance resulting from change in ambient conditions. Compensation circuitry (18, 22) reacts to set variation in ambient daylight brightness by altering a threshold value and/or vary the signal from the detector. An Independent claim is included for the corresponding method of operation. A further claim covers a sensor unit with optical filter reducing a spectral portion of radiation to less than 10% of that incident, preferably to less than 5%. Infrared is attenuated over an angle of 65 deg , preferably at least 75 deg , independently of the angle at which light falls on the sensor. Preferred Features: Compensation shifts a threshold level or enlarges the range between two threshold values. It tracks a threshold value as influenced by the sensor detecting variation in ambient brightness. Compensation is first applied by the electronic circuitry, when ambient brightness varies by more than 1000 lux, preferably more than 2000 lux in the wavelength range covered by the sensor. The detector is pyroelectric, with suitable electrical characteristics. Brightness detection employs a sensor able to acquire and transmit images, especially a CCD or CMOS element, or other comparable image receiver.

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